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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=2; day=22; hr=13; min=25; sec=55; ms=172;]

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Reviewer Comments:

<210> 1481

<211> 187

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<222> (1)..(178)

<223> n = a or c or g or t

<400> 1481

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aactcaattt ccccaaaagc nnaaaattgg gagacaattt tacatggact ttggaaaaca 120
tttttttcct ttgcattcat ctctcaaact tagtttttat ctttgaccaa ctgaacgtgn 180
ccaaaaa 187

Please change the above <222> response to: (1)..(180) because the last "n" is at location 180.

Validated By CRFValidator v 1.0.3

Application No: 10580423 Version No: 1.0

Input Set:

Output Set:

Started: 2008-02-06 17:25:42.510
Finished: 2008-02-06 17:26:10.909
Elapsed: 0 hr(s) 0 min(s) 28 sec(s) 399 ms
Total Warnings: 0
Total Errors: 1
No. of SeqIDs Defined: 1617
Actual SeqID Count: 1617

Error code	Error Description
E 342	'n' position not defined found at POS: 180 SEQID(1481)

SEQUENCE LISTING

<110> Diggans, James C.
Elashoff, Michael

<120> Methods for Molecular Toxicology Modeling

<130> GENE-120/02US

<140> 10580423

<141> 2008-02-06

<150> PCT/US2004/039593

<151> 2004-11-24

<150> PCT/US03/37556

<151> 2003-11-24

<150> 60/613,831

<151> 2004-09-29

<150> 60/554,981

<151> 2004-03-22

<160> 1617

<170> PatentIn Ver. 2.1

<210> 1

<211> 233

<212> DNA

<213> Rattus norvegicus

<400> 1

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acaaggaatg aattctaaat cttcataaag atgaataaaa aatgatatcc ctccagtata 120
gcggtgtataa tcaactgtcct tggtcactac tggcatttac tgtttaacat caaaaaacaa 180
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<210> 2

<211> 158

<212> DNA

<213> Rattus norvegicus

<400> 2

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accctttgaa ctagaagctt tctattctga ccctcaagca gttccatatc cagaagcaaa 60
aatcggccgt ttgtcgttc agaatgtttc tgcacagaag atggagaaaa tctaaagtga 120
aagtgcgcgt gacacacatg catttcacat atccgctc 158

```

<210> 3

<211> 318

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<222> (1)..(318)

<223> n = a or c or g or t

<400> 3

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gtagttccac ttttcaaaca ccaaaagggg ggggangggg gaggagggtg tccttgctgt 120
cagataatta cattgttaat tccataatag catttacaat atcgttactg tngtttttna 180
gggctcggac agccttttgc cttgacacat ttgcttgtga catgaccaac tctatgtcct 240
taacttcac acccgtttca tcaacctcct cttcttcgnt ctctcttgg acagtcggcg 300
tctgcggtgt tctcctga 318
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<210> 4

<211> 308

<212> DNA

<213> *Rattus norvegicus*

<220>

<221> misc_feature

<222> (1)..(308)

<223> n = a or c or g or t

<400> 4

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cggagacccc cgggtgaatc caccgacacc atgtctgacc aggaggcaa accttcaact 60
gaggacttag gagataagaa agaaggagaa tacattaaac tcaaagttat tggacaggac 120
agcagtgaga tccatttcaa agtgaaaatg acaacacatc tcaagaagct caaagaatcg 180
tactgtcaaa gacagggagt tccaatgant tctctcagggt ttctctttga aggtcagaga 240
attgctgata atcatactcc aaaagaactg ggaatggagg aagaagacgt gatttgaagt 300
ttatcagg 308
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<210> 5

<211> 608

<212> DNA

<213> *Rattus norvegicus*

<400> 5

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taataacaag tgtacaat ttt agcataagga atcggagagc ctctccagag aagtcggttt 60
ctttgctgca agaagaatga ggttctgaac ccttatccaa gaacagaagc catcagccaa 120
gtctccacat ttctctgcaa aatgtttag cctctataac tgtatgatag tgtaatgcat 180
gccttcagtt gtaagtggcc agatcgcgct acagtgacat tgaaacctgc tctctaattg 240
gccctgtaca gtttgcttat ttataaattc atttaaaaca ctacagctgt tgaatgggtta 300
caacctacgc ctccggctcct aacttcagtt gttctcctcg gtgtgcagcc agctgttcca 360
cactgtatta ttgtaactta tttagtgaag tcagaagcag tagacagatg ttggtgcaat 420
acaagtattg tgtgcattta tcgtaataaa gtgctccgcg tcggttcagt tcctcacagc 480
ttctcacagt gcatgtctga ctgtagtctg taaatagagg tcagtgtccg tgctgctaac 540
aggtatcgat cgcacagaca tgatttcagg taaataaatc gattctacga taaatgggta 600
aaagaaaa 608
```

<210> 6

<211> 619

<212> DNA

<213> *Rattus norvegicus*

<400> 6

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cccaagatta aatgattatt aaaaaagcgt gccactgtat agaaatcaac attctctccc 60
ataattctgt gcattgggac tatagaaatg tcaactgtccc tgctccacat cttcaaatta 120
acattctcag gtcacaatag taagtcttcc cacaagggaac cttccggaaa aacaagctgt 180
ttctcggcct catatttccc gctttttgta gcatgcacca gcaatctatc caagaagtat 240
```

```

atattgggga gtaaggagga gatccaccag caagcccaca gttgttaaca gccataagat 300
tagatacaag cacaaaggga tatgtcaaca tactggcaaa gaatcctgtg acagcttggg 360
aataactttt catttcattc atggtagaga cccactgtc cagtgcatag gtattgatga 420
gataagccag tgagttacac agccacaaag aaatgatgtc acctaggagg cgaggaatga 480
ggcccgcaaa aaatcctacg atgccttctt cccggtagat ggttactatg gagtacaca 540
gtccgcagta cttagactct ctgccgataa actgtaccat ggacctcaga gtaatcacct 600
tgaagggatg tgtaatgag                                     619

```

<210> 7

<211> 496

<212> DNA

<213> *Rattus norvegicus*

<400> 7

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atctgtgtag accacaggca ggtgtttgtt tctggcatgg ccacattcca gatacaagaa 60
cgtagagaga cccagcaagg caccacaccc tctcatggca gagagggagc agtggggcag 120
ggtgagggcc agctaataaa gcctcccctc ccccccttaa ctttgttcat agggcaaagt 180
gctgacggaa ggagaagggt ggtaggttga gagggtatgc gtcaagactt ggggagaggt 240
agcagatagc cgtcttgagg ctctgttttc aatgagtagt cctagtcgac cttaaccaaa 300
gctccatccg attgtattct tgccaaaaca caacagacac atgcacgaac atggggcgta 360
agcaataatg tcctctcgtg ttctccacgg ctgctcgaa caagtggctg gttcatttgg 420
ttgacactga ttgccttta accatgacgg ttctgtttt ttatttcaca gaaagccaat 480
aaaattgttt agctat                                     496

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<210> 8

<211> 617

<212> DNA

<213> *Rattus norvegicus*

<400> 8

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acacatgaaa cccagcagg accaacaagt gcggccttgc acttgtcaag gatgctgtag 120
aagaagaaac tattgagttt ccgtcttaac cctcttcaga acttgaatca tcctcttggt 180
cagaaagttc cggcacaggg aagcggagaa tggcagctac tccagtcagc tgaccaagct 240
gttccccaga cacgtggaga ctggagaata tccttacggg gcccgcatte tctttcacac 300
tgtccaccag cctgacatac cggtccggg tggccacatc ctgatgccgg aagagctcat 360
cactgatgag caaggtgtca atcgccaagg cttcattggc cctctccacc tgcttgagtc 420
catagaatgc tcggtcaggg tcgtgctgta acattttgta gaagtcatcc aaggctttta 480
cttccccggc agctttcgtg tctgaaaggc ggctcgctac agtaggatca cataggacct 540
ctttcaggga gtacctgtgt ccagaggagg cgtgtacctg aaggaatttg gagccgtttt 600
ccaggagcac cttgttt                                     617

```

<210> 9

<211> 598

<212> DNA

<213> *Rattus norvegicus*

<220>

<221> misc_feature

<222> (1)..(598)

<223> n = a or c or g or t

<400> 9

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tccttcctt ctgatacta aaaaatgcaa gattcattcg ttacaagcca tgtgcgattc 120
ggaccctcg aaggcagtc aggtctgcgg tccagcctca ggtgctgcac tatttcccat 180
tctcagcgt gaacattcgt tctgtgagca tccgctccaa ctttatggca tcagcagcaa 240

```

```

acttgcggat cccatcagag agctttctcca cagccatttg gtctctattg tgcagccaac 300
ggaaggcctt ctcgccaga tgtatcttct ccaagtcact ggtctgggct gctttgacgg 360
aaagcgtggg tgcagcttg ctgctgtcct tgagcagctc cccagaagc ttgggtgaga 420
tggtgaggaa atcacagcct gccagcgctt tgatctcacc cgtgttacgg aaggaagcac 480
ccatgacaat ggtcttgtag ccaaactttt tgtagtagtt gtagattttt gtgacactct 540
tcaccccaag gtctctctgn ggttcgtagg atttcttgtc gtgtttgcac atgcagtc 598

```

<210> 10

<211> 644

<212> DNA

<213> *Rattus norvegicus*

<400> 10

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caataaccaa gatattggac tttattaaaa ttgaagatta tattagtcaa cttacctgtt 60
gctttgacaa aataccggat acaaagaact gtaggaaaga atgatttggt ctggctccca 120
gtccattgta ccagtaggag cagctcataa ctgtaacagc aggaacatga gagttcgctc 180
acatctctgt cttgggagat ggtgtcagga gaagctcaag gtcacctca gggatgcagt 240
gaactcaagg ctagcctggg gtacatgaga ccagcatcca atcccgaacg gcatttttcc 300
ttcttgccgg atcatccttc ccagaaccct ggggagaaat gccaaactg tctgttcac 360
gtcatcttgt tttgcctgga ttttgtgggt gaggagcctt cagtcttctt cgagaacaca 420
taggtacaag acttgtaga atcttcagtc tttcctcaag tctggatgac agatcccttc 480
tattgctgct catcgtcttc aatttcgtca tctgggtgag caccactggg gacgggcgta 540
tcccacgcag ccaccgggc acgcacttag ccaactgaga agcccaccaa acgccagttc 600
cgggccactg ttggctccga cgccgttggg ggcgtgcgcc ctcc 644

```

<210> 11

<211> 646

<212> DNA

<213> *Rattus norvegicus*

<400> 11

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catatactta atctatgagg agaggctgac tactatctct tttatctctt tcaggagaag 120
gaaggcaagc aagaaaggga aggtcagcca ccatgactga aatccaggca atggctgaaa 180
gcctggaggt aagacaagta acttaactgt gtcaaaaagt ggggtcaaag gcgcagtagt 240
gccactacca cgaaggctga tcctggagtg ggtgctctgt cccatcgga actctggttt 300
cttgggtggg ggggtgtgaa ggagtcctct tgttgactat gttaatgtga cagttaatag 360
gggtgacaca cccacatggc aggcacagc ggctgtgtg acatccacac acccacatca 420
aggtttctat taacttctgg tccccaaact cctgctctta gcagtagatc agaagtggta 480
cgcacgaatg cctggaaaat tccactctat gtaacacctt tggtttaaag acattttcca 540
gtgaataaca gtgaaaagt gaattagtaa ctattggtgt taaaccggtt aattctcagg 600
atcaggccta tgggattcca ccatgcaatg tattcgaaca aattct 646

```

<210> 12

<211> 513

<212> DNA

<213> *Rattus norvegicus*

<400> 12

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aaagccatac atggatgggt agagtaagca gctgtacaga ggggacagca tcagtgtaca 60
tacattcatg tccagaacac ttagcataca tcagggttta tacaagggtg cagaggctat 120
aggcacaatg atacaaaata taaagtatat ttccatctat aaatacacag ccggggactt 180
ccctaggcac caatcctggc tccatcagtg cccttctctg ccatctcacc tccaacctca 240
gatcttccga gtggccggag gctgtttgta cctgggctgt tcctaagggg tcttgtaag 300
ggcatcactg gccgccatgt tctcctgtca cccctcccc tctttcattc ctgtctaaga 360
atggacaaca ctctccctgt tgatatagag attcaacaat aaacaacaac atgacagatc 420
attcacaaaa gagcagtggg taaaagtgtc ctcgtttaa ggaagtcttt ggcaagaata 480

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<210> 13

<211> 637

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<222> (1)..(637)

<223> n = a or c or g or t

<400> 13

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ccctgcagat tcataacaag gagctgacct agttgtccca ctacaagctg acagctctcc 120
agcagtgatt gatttgtcac agcacagaaa tgccacctg gacttgtggt ccgcttacta 180
actggaggaa gcagttttaa gtcttaccac ggctgtgct caaagtgagc actgcacttt 240
gagaaaagttg tttgaccagt cagcaatgtc tgctagctga cttacccgac tggccatgag 300
tctcatctgc acgttgactc gcctagggga gggctcctggt ctgtgtcaaa ctctctggta 360
ccataaaaaac caagtaacgg tggatctgac aggttaccct gagagcttaa gaagcagagt 420
atttaacttc atttgtagan aagaagggag tagtacaggc tataggctga ggtagccttc 480
atttaaagtg caatctactt gcgataaata tagtaactag gacccgttcc aagcagctat 540
catagtcatg ttgatgctag ctaactagaa cctggttggt cagttctcac acacatcaca 600
agcagaagcc cttgcagtaa gctatcagtg agaagag 637
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<210> 14

<211> 524

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<222> (1)..(524)

<223> n = a or c or g or t

<400> 14

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aatgttacca ctccaactat ttgccaacag taacactggt atattttgtc aatgtacaat 60
acagagagca cagcccctca tgactggtgc caggtcacat gcagcacagt tcctcttccc 120
tgtcagacag tgtctttaac taaggacaga cagtacgtgg agcgtaaagca agggattcgg 180
gcactgtgaa gggggcagct cctcgccagc tggccccagt cagatacact atggtggtca 240
gttctttctg tgcagatgac aagggaaga tgaaccatgc tgacagagga tggggcaggc 300
gggtcgagcc actgtgagtc agaaggctga cctccacggt gcaggatttg ctctctgcan 360
ggatacagag tgctcagttt gcagatctgc tggtagctga cctcgatgat gacgacatga 420
atgggaggga gatgggtgac ccaagcaggc cagcagagtg atgatgggcc agagagggct 480
cctgatctct cttgtggttg ggcaggcccc ggtggctcat gagg 524
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<210> 15

<211> 528

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<222> (1)..(528)

<223> n = a or c or g or t

<400> 15

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ttcatctcct agtcctacat atctatttcc acctaaactc atgtgctttc ttttacagct 120
cactgaatcc ctttagcgctg cctatatgta gcgctaagtg cagggtgtaca gcatgggtag 180
cctctcaggg accacatatc tgacgaaagc tgactctcct cccagcagtc atcccaacag 240
atctccaact agggatggga cttcctgata cctacccccc ttatgctgag actttgactg 300
agcttaatac tcttcaatat ttttctccta aataagattt ctaaacaacag aactataaaa 360
ttttgagcag aaaaaagtct tgtttttatg tacacaagca taatctgtgg gtattgcagt 420
cacagattaa caagagcata aaaacgagag gcagagcaan gatctctttt cangaatgag 480
aaaaaaaccc acaaggctcc agatctccan anagtgggtg gcacaagg 528

```

<210> 16

<211> 597

<212> DNA

<213> *Rattus norvegicus*

<400> 16

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cagacactat gaattgcttt aatgggtggtg tctgtacaag tgatgtcagg acacaggaca 60
gcaaattgcac agtggacatg gctagcagac aagctgtgaa tgaataaaga gttcacactg 120
ctcccatgct gtagtgacta agacagctct aagccacctc ctctcagcc tctcctcaa 180
actctccttc ctctcagct gtagcatcct ggtactgctg gtactcggac accagggtcat 240
tcatgttgct ctaccctca gtgaactcca tctcatccat gccctcgccc gtgtaccagt 300
gttggaaggc cttgcgtcgg gacatggctg tgaactgctc tgagatgcgt ttgaaaagct 360
ccggaaaggc cgtgctagtt gccaatgaag gtgccgggca tttttaaggc accgggtgga 420
atgtcacaga cagctgtttt cacgttggtg gggatcaact cgggcaagta actgctgtcc 480
ctgttttggg catttaccat cgggtcgggc ccgccttcaa taacatgcgg ccctgaaaa 540
ggtagccact gtcaagtaac gcccatgggg ggatgagagg agccatcagg tcctaac 597

```

<210> 17

<211> 591

<212> DNA

<213> *Rattus norvegicus*

<400> 17

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cacagtctgt gcagctttta tttcaacagg gaagtaataa gatctatata cagtctaaaa 60
ccactagaaa aggtgagtaa aaaggaccca tgggtccatct ggggtccaacc aggggcggtg 120
gcacatgcct ttactcccat cacttgggag gtggaggcag gcagatctgt gagtttgagg 180
ccagcctggg tgacagttag ttccaggcaa gccagagcta catactgaga ccctgtctca 240
aaacaaaagt ctatggagtg atatgaatgg tggggccggg caagcatcgt acctggcgtc 300
cagagcaggg cctgggcatt tctctggtac atgtaggagt gaggccttat gaaagacccc 360
gcactgagca gaggcacaga ggacactgcc tacctgtttg agctgtctac ctgtctccac 420
aggacaggcg gacattccaa tgccatcctc gtaggteccag cctgacttac acaccagaa 480
gggatcaagc ctggcctgca ttctgtaagg atgttcagaa cttcacggtg ctattcagag 540
cccccgagaa tagccggtcg cgggagatca ccagtggagt gtaaatgtcc t 591

```

<210> 18

<211> 520

<212> DNA

<213> *Rattus norvegicus*

<400> 18

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ttcaggccca aacagttcat gagtgcagca tgcagcacc c atgggtccact gcaggccact 60
ccatcagtag caagaccgga attatcagag accgggtgct gtggcctgcc acccagggtg 120
cactcaagac gccaaagggtg tgggtttggc tgagtatgaa aggtaccagg cagaggtcag 180
cttggggcta tgtgagctgg ccaacccaag ggaagagggt aggtgaacag ggtttccagt 240
gtcccgtgta cccacggcg gccaaagggc taacatgggg tctctggtgc tgccaacaag 300
gcctacccta gtgctaagcc tgcggctgag tgagcagggt gtgtgttggg gtcaggatgc 360
ccctcctaag gcgttactgc tataagctac tctgtcccag ggcagtaagg aaccacaggg 420

```



```
gacattttcc ccacgagggt ccaatgggtc aaatcactga agccttcagc gcctatggct 480
ggcacaccag gggaacaagg gcgtgggcgt ggggtgtggag 520
```

<210> 19

<211> 589

<212> DNA

<213> *Rattus norvegicus*

<400> 19

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aatgatcaac ttatgcattg tttatgggat accattataa gaaaataaaa cagtatagag 60
ttgtagaatc aataaatgat ataattgata gaaaagtga ataaacttgg tatgtacaag 120
gtatagacaa ggggttgaaga aaagaaatga gtatgcagat acccgtgctg tgattgaagt 180
agctaaagaa agcagtatta ctggcaaatg ctaacaaata actgtggggt gtgaattggg 240
ggcccccaca cactcctgtg tttgaatgct cggctcacag ggagtggcac tgttaggagg 300
tggcctcctt ggaggaagtg tgtcactgtg ggggtgggct ctggagggtc ctcctctcgc 360
tcaggctcga ccacgtgggg agagcttcct tttggttcc tgtacaagac agtctctttc 420
tgactgcctt tggatcaaga tgtagaactc tcagctcatt ctccagcacc attgatagga 480
agcctggatg ctgccatgtc tgcccacctt gatgataatg gacggaacct ctgaaactgg 540
agcctgcgcc aattaaatgt ttttcattgt agagttgcct tggatggta 589
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<210> 20

<211> 671

<212> DNA

<213> *Rattus norvegicus*

<220>

<221> misc_feature

<222> (1)..(671)

<223> n = a or c or g or t

<400> 20

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cataaaatgc acaattatcc catgtgtcca aagtctgctg agtttgctct gaagtttgta 120
tttactccaa tatctagaat gtctcaggac cacatgctga tactacacag aacagaaggg 180
agctgagcag aaccacacgt aaatgcaaac ttaagaactt tatggtattg ctctggtgcc 240
ttatgtctta agcactgacc agagagttaa gtgtgagcta gaaaagtttt cagagaaaatg 300
agctgcagaa ctctctaccc cacccttagg ttattcagag caaggagggc tgatgtgggg 360
gatgagaacc tacagactga acatcctgct ttcttcctac ctcagtccga cgctggacat 420
cctggagtggt aaggcactag aactggcctg agaagtgtc caagcttcag ttcttggtgt 480
gcaaaagaaa ttgtggcata gatcttttga aacataataa aataactccc cctcctctt 540
atattctggt attcacagac aaaaagacaa ggaggtanat gtttgcaaag attaaaaaac 600
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<210> 21

<211> 631

<212> DNA

<213> *Rattus norvegicus*

<400> 21

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cccttattac atatgacatc taaaaacaag atactcattc tatcattatc aaaggtgtct 120
agtaaaaaag gaaagattga cattgaagat gggactagaa acccctactt aggggccttc 180
aaacggtttc tcacacacat ctgtgaggta ggttattatc cacattttgt acaagagaaa 240
actacacaag gttacatacc ttgtgctgcc ataatagcaa acaggggaatt agatccaatt 300
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agtaattgca ttcattttta aagcataaga aggcagccaa atagtttccc ggggtggcttt 420
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```

acaaagtgaa acaaatgaac agaaaatgca ttcagtgaag acattccaat ggtgacgctg 480
taaggtctgg tcaagtggaa ccaaaaggca gaagcaaacc acgtgaccgc ctgtgggaca 540
ggtctcagga aaacggggga gctgggggca gcagactttg aacacacggt tacggctact 600
ctgcaagtat ttgagaatgc accaggtact c 631

```

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<210> 22
<211> 499
<212> DNA
<213> Rattus norvegicus

```

```

<400> 22
ggtaacccaa ccaattcttt attgtaaaga tgagtgtctac aaaggaggcc tagtgtgtag 60
ggagtggggg gtcaccttct ttcaaggac tccacaaggt ccactagaga tgacatatag 120
ccaaggaata agcctgagcc agggcagcag tggttctgaa ctctattgga agttgggggt 180
ctgaatcaag cccactgacc caggtccatg aggaagtgtt caatgtcatc gtagagacta 240
ttggtgctag acaagcacag gccaaagactg ctgctgtcca gagaggacac accctcacgc 300
tgcacgcctt ccagatgtgt cttgcacagc catggctcca gcttcaccag gatcaggctc 360
ttctccttgg gcctccctgc tgacaagtct tgcccaaac ccaggtagat ggtgtaatgt 420
ggtgatectt gtcgcctccg ggcccggaa tctctcagtt ctcggaagaa atgctgaagt 480
caaagatggg agtatggca 499

```

```

<210> 23
<211> 483
<212> DNA
<213> Rattus norvegicus

```

```

<400> 23
acataagaag gaattccaaa ggtataccca aggggcattg atcataagct gaacacgcag 60
agggccccaa cgaatggcac agagtctgaa cggattggca cgttcaactt ccattcatga 120
tggtggaata ctcttcttgg tgctcaacca ttctcagaaa cacttgatat ttcttgatc 180
aatatttttt atcagcacgc tctgggaaca caaccttccc cactttgtct attcttgcca 240
ttgcctcctg cacagaagca aagtcctctg aggcacaggc acccagaata gcagctccca 300
cgaggacaga ctccacctct tgtgacagaa ccacaggcat gccagtaatg tcagcatgca 360
tttgacaaaa aaggggattc ttgcttaggc ctccacataa gaagagggta ctaagagaat 420
gtcctgctgc ttccatggc tcaatgatga agcgagtccc gaaagcaatg gcttgaatag 480
tgg 483

```

```

<210> 24
<211> 558
<212> DNA
<213> Rattus norvegicus

```

```

<400> 24
gctaaaaaat gcctttatct ccagccagat aaaatttttt caactgtata tatggttaca 60
catgaaaagg tacacctctg tcgtcggcct tgtttacaag acccagagct tcttattaat 120
gtgagtatca aacaaccttc tttgtctctg aaacataact caagtaggcg gccgatggac 180
ctgccacaca cgtgttcgag gatggga

```